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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/809,449	03/26/2004	Johann Arnold	Q79528	8131
23373 7590 01/08/2008 SUGHRUE MION, PLLC 2100 PENNSYLVANIA AVENUE, N.W. SUITE 800 WASHINGTON, DC 20037			EXAMINER MAIS, MARK A	
			ART UNIT 2619	PAPER NUMBER
			MAIL DATE 01/08/2008	DELIVERY MODE PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary

Application No.

10/809,449

Applicant(s)

ARNOLD ET AL.

Examiner

Mark A. Mais

Art Unit

2619

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 26 October 2007.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-10 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-10 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date _____
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____
- 5) ☐ Notice of Informal Patent Application
- 6) ☐ Other: _____

DETAILED ACTION

Priority

1. Acknowledgment is made of applicant's claim for foreign priority.

Claim Rejections - 35 USC § 102/103

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

4. Claims 1-8 are rejected under 35 U.S.C. 102(e) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over Nelson (WO 00/13376).

5. With regard to claim 1, Nelson discloses a method for receiving data telegrams, which are identified by identifiers, in an isochronous real-time fast Ethernet data network for real-time communication [**Ethernet, page 5, line 2**], wherein a node has at least a first receive port and a second receive port [**interpreted as being received from 2 distinct paths**], and wherein the data network has at least one redundant network path, the method comprising:

at the first receive port, receiving a first data telegram at a first timer value [**the first packet's arrival time (interpreted as the first timer value) is saved, page 10, lines 15-22**], wherein the first data telegram has an identifier [**node D receives duplicate packets from one path as well as from the redundant path, col. 5, lines 18-25; each packet has an individual identifier which allows the receiving node to determine which packets are duplicates, page 9, lines 30-31; each packet can be identified by the packet number or a different label, page 9, line 30 to page 10, line 4 (which is different than the timer value--claim 9)**];

in a memory of the node, storing user data of the first data telegram in an address space [**each packet has an individual identifier which allows the receiving node to determine which packets are duplicates, page 9, lines 30-31; address space is interpreted as each individual packet's location within the entire message**] that is assigned to the identifier [**each packet is stored—thus allowing the receiver to determine if the packets are duplicates, page 9, lines 25-31**];

storing the first timer value **[the first packet's arrival time (interpreted as the first timer value) is saved, page 10, lines 15-22];**

at the second receive port, receiving a second data telegram at a second timer value **[the redundant packet's arrival time (interpreted as the second timer value) is saved, page 10, lines 15-22]**, wherein the second data telegram has the identifier of the first data telegram **[node D receives duplicate packets from one path as well as from the redundant path, col. 5, lines 18-25];** and

if the first timer value and the second timer value are not identical, overwriting the address space and the stored first timer value of the first data telegram with user data of the second data telegram and with the second timer value of the second data telegram **[from the sequence of received packets, it can be determined if the original packets did not arrive because the redundant packets will contain the correct identifier of the packet (e.g., when node D saves both primary and redundant packets to verify integrity of the packets, page, 5, lines 26-29) within the message sequence (but first to arrive, page 5, lines 24-25); thus, the first timer value will be "0" (because it did not arrive) and the second timer value will be the actual time of arrival (i.e., timestamps not identical); the redundant packet's payload "overwrites" the missing packet's missing/empty payload];**

wherein a respective one of the first and second timer values, at which a respective one of the first and second data telegrams is received, corresponds to a cycle number of an isochronous cycle during which the respective one of the first and second data telegrams is received **[since the data telegrams are received in an Ethernet communication system (page 5, line 2), the received arrival times can be timestamps according to the receiver's cycle number within**

an isochronous cycle. In the alternative, timestamps are well known to those skilled in the art. A timestamp (timer value) can be determined by (a) the real-time arrival at the receiver; (b) time-to-live countdown timers within the packet itself; (c) real-time transmission from the transmitting source; (d) other timing characteristics within the network (e.g., Ethernet cycle number within an isochronous cycle); as well as (e) real-time determinations from a third source (e.g., GPS time). Thus, it would have been obvious to one of ordinary skill in the art at the time of the invention to have used time-stamps to determine packet arrival differences for determining whether a received packet has been received, as well as determining if a received packet is a redundant packet because timestamps are useful for not only determining arrival time and timeliness of packet transmission within a network, but also to determine other network metrics of quality (page 10, lines 17-20)].

6. With regard to claim 6, Nelson discloses a node having an application in an isochronous real-time fast Ethernet data network [Ethernet, page 5, line 2] for real-time communication with at least one redundant network path [interpreted as being received from 2 distinct paths], the node comprising:

a first receiver configured to receive a first data telegram at a first receive port and at a first timer value [the first packet's arrival time (interpreted as the first timer value) is saved, page 10, lines 15-22], wherein the first data telegram has an identifier [node D receives duplicate packets from one path as well as from the redundant path, col. 5, lines 18-25;

each packet has an individual identifier which allows the receiving node to determine which packets are duplicates, page 9, lines 30-31];

a memory, wherein the memory is configured to store user data of the first data telegram in an address space **[each packet has an individual identifier which allows the receiving node to determine which packets are duplicates, page 9, lines 30-31; address space is interpreted as each individual packet's location within the entire message]** that is assigned to the identifier **[each packet is stored—thus allowing the receiver to determine if the packets are duplicates, page 9, lines 25-31]**, and wherein the memory is configured to store the first timer value **[the first packet's arrival time (interpreted as the first timer value) is saved, page 10, lines 15-22];**

a second receiver configured to receive a second data telegram at a second receive port and at a second timer value **[the redundant packet's arrival time (interpreted as the second timer value) is saved, page 10, lines 15-22]**, wherein the second data telegram has the identifier of the first data telegram **[node D receives duplicate packets from one path as well as from the redundant path, col. 5, lines 18-25];** and

a writer configured to overwrite the address space and the stored first timer value of the first data telegram with user data of the second data telegram and with the second timer value of the second data telegram, if the first timer value and the second timer value are not identical **[from the sequence of received packets, it can be determined if the original packets did not arrive because the redundant packets will contain the correct identifier of the packet (e.g., when node D saves both primary and redundant packets to verify integrity of the packets, page 5, lines 26-29) within the message sequence (but first to arrive, page 5, lines 24-25);**

thus, the first timer value will be “0” (because it did not arrive) and the second timer value will be the actual time of arrival (i.e., timestamps not identical); the redundant packet’s payload overwrites the missing packet’s missing/empty payload];

wherein a respective one of the first and second timer values, at which a respective one of the first and second data telegrams is received, corresponds to a cycle number of an isochronous cycle during which the respective one of the first and second data telegrams is received [since the data telegrams are received in an Ethernet communication system (page 5, line 2), the received arrival times can be timestamps according to the receiver’s cycle number within an isochronous cycle. In the alternative, timestamps are well known to those skilled in the art. A timestamp (timer value) can be determined by (a) the real-time arrival at the receiver; (b) time-to-live countdown timers within the packet itself; (c) real-time transmission from the transmitting source; (d) other timing characteristics within the network (e.g., Ethernet cycle number within an isochronous cycle); as well as (e) real-time determinations from a third source (e.g., GPS time). Thus, it would have been obvious to one of ordinary skill in the art at the time of the invention to have used time-stamps to determine packet arrival differences for determining whether a received packet has been received, as well as determining if a received packet is a redundant packet because timestamps are useful for not only determining arrival time and timeliness of packet transmission within a network, but also to determine other network metrics of quality (page 10, lines 17-20)].

7. With regard to claim 7, Nelson discloses an isochronous real-time fast Ethernet data network **[Ethernet, page 5, line 2]** for real-time communication, comprising:

at least one redundant network path **[interpreted as being received from 2 distinct paths]**; and a plurality of nodes, wherein at least one node has an application, and wherein the at least one node comprises:

a first receiver configured to receive a first data telegram at a first receive port and at a first timer value **[the first packet's arrival time (interpreted as the first timer value) is saved, page 10, lines 15-22]**, wherein the first data telegram has an identifier **[node D receives duplicate packets from one path as well as from the redundant path, col. 5, lines 18-25; each packet has an individual identifier which allows the receiving node to determine which packets are duplicates, page 9, lines 30-31]**;

a memory, wherein the memory is configured to store user data of the first data telegram in an address space **[each packet has an individual identifier which allows the receiving node to determine which packets are duplicates, page 9, lines 30-31; address space is interpreted as each individual packet's location within the entire message]** that is assigned to the identifier **[each packet is stored—thus allowing the receiver to determine if the packets are duplicates, page 9, lines 25-31]**, and wherein the memory is configured to store the first timer value **[the first packet's arrival time (interpreted as the first timer value) is saved, page 10, lines 15-22]**;

a second receiver configured to receive a second data telegram at a second receive port and at a second timer value **[the redundant packet's arrival time (interpreted as the second timer value) is saved, page 10, lines 15-22]** wherein the second data telegram has the identifier

of the first data telegram **[node D receives duplicate packets from one path as well as from the redundant path, col. 5, lines 18-25]; and**

a writer configured to overwrite the address space and the stored first timer value of the first data telegram with user data of the second data telegram and with the second timer value of the second data telegram, if the first timer value and the second timer value are not identical **[from the sequence of received packets, it can be determined if the original packets did not arrive because the redundant packets will contain the correct identifier of the packet (e.g., when node D saves both primary and redundant packets to verify integrity of the packets, page, 5, lines 26-29) within the message sequence (but first to arrive, page 5, lines 24-25); thus, the first timer value will be "0" (because it did not arrive) and the second timer value will be the actual time of arrival (i.e., timestamps not identical); the redundant packet's payload overwrites the missing packet's missing/empty payload];**

wherein a respective one of the first and second timer values, at which a respective one of the first and second data telegrams is received, corresponds to a cycle number of an isochronous cycle during which the respective one of the first and second data telegrams is received **[since the data telegrams are received in an Ethernet communication system (page 5, line 2), the received arrival times can be timestamps according to the receiver's cycle number within an isochronous cycle. In the alternative, timestamps are well known to those skilled in the art. A timestamp (timer value) can be determined by (a) the real-time arrival at the receiver; (b) time-to-live countdown timers within the packet itself; (c) real-time transmission from the transmitting source; (d) other timing characteristics within the network (e.g., Ethernet cycle number within an isochronous cycle); as well as (e) real-time**

determinations from a third source (e.g., GPS time). Thus, it would have been obvious to one of ordinary skill in the art at the time of the invention to have used time-stamps to determine packet arrival differences for determining whether a received packet has been received, as well as determining if a received packet is a redundant packet because timestamps are useful for not only determining arrival time and timeliness of packet transmission within a network, but also to determine other network metrics of quality (page 10, lines 17-20)].

8. With regard to claim 8, Nelson discloses a computer *readable medium* for a node in an isochronous real-time fast Ethernet data network [**Ethernet, page 5, line 2**] for real-time communication by way of data telegrams identified by identifiers, the computer-readable medium *storing* instructions enabling a processor to perform the following operations:

at a first receive port, receiving a first data telegram at a first timer value [**the first packet's arrival time (interpreted as the first timer value) is saved, page 10, lines 15-22]**, wherein the first data telegram has an identifier [**node D receives duplicate packets from one path as well as from the redundant path, col. 5, lines 18-25; each packet has an individual identifier which allows the receiving node to determine which packets are duplicates, page 9, lines 30-31]**;

in a memory of the node, storing user data of the first data telegram in an address space [**each packet has an individual identifier which allows the receiving node to determine which packets are duplicates, page 9, lines 30-31; address space is interpreted as each individual packet's location within the entire message**] that is assigned to the identifier [**each**

packet is stored—thus allowing the receiver to determine if the packets are duplicates, page 9, lines 25-31];

storing the first timer value [the first packet's arrival time (interpreted as the first timer value) is saved, page 10, lines 15-22];

at a second receive port, receiving a second data telegram at a second timer value [the redundant packet's arrival time (interpreted as the second timer value) is saved, page 10, lines 15-22], wherein the second data telegram has the identifier of the first data telegram [node D receives duplicate packets from one path as well as from the redundant path, col. 5, lines 18-25]; and

if the first timer value and the second timer value are not identical, overwriting the address space and the stored first timer value of the first data telegram with user data of the second data telegram and with the second timer value of the second data telegram [from the sequence of received packets, it can be determined if the original packets did not arrive because the redundant packets will contain the correct identifier of the packet (e.g., when node D saves both primary and redundant packets to verify integrity of the packets, page, 5, lines 26-29) within the message sequence (but first to arrive, page 5, lines 24-25); thus, the first timer value will be "0" (because it did not arrive) and the second timer value will be the actual time of arrival (i.e., timestamps not identical); the redundant packet's payload overwrites the missing packet's missing/empty payload];

wherein a respective one of the first and second timer values, at which a respective one of the first and second data telegrams is received, corresponds to a cycle number of an isochronous cycle during which the respective one of the first and second data telegrams is received [since

the data telegrams are received in an Ethernet communication system (page 5, line 2), the received arrival times can be timestamps according to the receiver's cycle number within an isochronous cycle. In the alternative, timestamps are well known to those skilled in the art. A timestamp (timer value) can be determined by (a) the real-time arrival at the receiver; (b) time-to-live countdown timers within the packet itself; (c) real-time transmission from the transmitting source; (d) other timing characteristics within the network (e.g., Ethernet cycle number within an isochronous cycle); as well as (e) real-time determinations from a third source (e.g., GPS time). Thus, it would have been obvious to one of ordinary skill in the art at the time of the invention to have used time-stamps to determine packet arrival differences for determining whether a received packet has been received, as well as determining if a received packet is a redundant packet because timestamps are useful for not only determining arrival time and timeliness of packet transmission within a network, but also to determine other network metrics of quality (page 10, lines 17-20)].

9. With regard to claim 2, Nelson discloses that if the first and the second timer values are identical, if the user data of the first data telegram are not valid, and if the user data of the second data telegram are valid, overwriting the address space with the user data of the second data telegram [this is interpreted as the corruption of packets sent along the primary path (i.e., the primary packets' error rate reaches a predetermined threshold), then the redundant path (and packets) are used, page 11, lines 4-9; thus the timer values may be identical, but the second packet will have reached the received "uncorrupted."].

10. With regard to claim 3, Nelson discloses that the address space, which is assigned to the data telegrams having the identifiers, is overwritten with respective user data of a respective one of the data telegrams, only if the respective data telegram having a respective one of the identifiers is valid **[each packet has an individual identifier which allows the receiving node to determine which packets are duplicates, page 9, lines 30-31; address space is interpreted as each individual packet's location within the entire message].**

11. With regard to claim 4, Nelson discloses that, in addition to receiving real-time critical data, non-real-time critical data are received **[this is well-known within a system utilizing different transport technologies such as Ethernet, RS-232, ATM, and SONET, page 5, lines 1-4].**

12. With regard to claim 5, Nelson discloses that only user data of valid data telegrams are stored in the address space **[this is interpreted as the corruption of packets sent along the primary path (i.e., the primary packets' error rate reaches a predetermined threshold), then the redundant path (and packets) are used, page 11, lines 4-9; thus the timer values may be identical, but the second packet will have reached the received "uncorrupted."].**

13. With regard to claim 10, Nelson discloses that the isochronous cycle comprises of two time portions, cyclical exchange of non real time data and cyclical exchange of real-time data **[this is inherent to an isochronous fast Ethernet data network]**, wherein the first and second data telegrams are real time data **[this is an inherent to an isochronous fast Ethernet data**

network], wherein paths of the network are broken up not to form a ring for the non real time data using Spanning-Tree-Algorithm **[Fig. 1, the MPLS network transmits data along multiple nodes (both direct and redundant routes)—the spanning tree is interpreted as all the intermediate nodes between each ingress/egress (edge) device (per path)]**).

Response to Arguments

14. Applicants' arguments filed on October 26, 2007, have been fully considered but they are not persuasive.

15. With respect to claim 1, Applicants state that Nelson fails to disclose two ports **[Applicants' Amendment dated October 26, 2007, page 9, paragraph 2 to page 10, paragraph 2]**.

Applicants argue, apparently, that Nelson discloses receiving packets via only the same port **[Applicants' Amendment dated October 26, 2007, page 9, paragraph 2 to page 10, paragraph 2]**. The examiner respectfully disagrees.

16. As noted in the rejection of claim 1 above, and acknowledged by Applicants, Nelson receives packets along 2 distinct paths. This is interpreted as receiving packets in 2 different ports. The examiner notes the broadest reasonable interpretation in light of Applicants specification. Further, Nelson discloses several physical links **[i.e., page 4, line 30 to page 5, line 4]** as well as multiple implementations with respect to those links **[Figs. 1-2]**.

17. With respect to claim 1, Applicants state that Nelson fails to disclose, teach, or suggest that the packet identifiers correspond to timer values [**Applicants' Amendment dated October 26, 2007, page 10, paragraph 3**]. The examiner respectfully disagrees.

18. As noted above in the rejection of claim 1 above, Nelson discloses that the first packet's arrival time (interpreted as the first timer value) is saved [**page 10, lines 15-22**]. For example, node D receives duplicate packets from one path as well as from the redundant path [**col. 5, lines 18-25**]. Thus, each packet has an individual identifier which allows the receiving node to determine which packets are duplicates [**page 9, lines 30-31**].

19. With respect to claims 1, Applicants argue, apparently, that Nelson fails to compare timer values [**Applicants' Amendment dated October 26, 2007, page 10, paragraph 3**]. The examiner respectfully disagrees.

20. As noted in the rejection of claim 1 above, from the sequence of received packets, it can be determined if the original packets did not arrive because the redundant packets will contain the correct identifier of the packet (e.g., when node D saves both primary and redundant packets to verify integrity of the packets) [**page, 5, lines 26-29**] within the message sequence (but first to arrive) [**page 5, lines 24-25**]. The first timer value will be "0" (because it did not arrive) and the second timer value will be the actual time of arrival (i.e., timestamps not identical). Thus, the redundant packet's payload "overwrites" the missing packet's missing/empty payload.

21. If Applicants are arguing that the each of the first and second timer values must be a non-zero value (i.e., effectively disclaiming the situation where one of the first and second packets never arrives), the examiner does not see such a limitation in the claims. In response to applicant's argument that the references fail to show certain features of applicant's invention, it is noted that the features upon which applicant relies (i.e., the first and second packets' timer values are non-zero values) are not recited in the rejected claim. Although the claim is interpreted in light of the specification, limitations from the specification are not read into the claims. See *In re Van Geuns*, 988 F.2d 1181, 26 USPQ2d 1057 (Fed. Cir. 1993).

22. With respect to claims 1, Applicants argue, apparently, that Nelson fails to overwrite the address space and timer values with redundant/duplicate packet information [**Applicants' Amendment dated October 26, 2007, page 10, paragraph 3**]. The examiner respectfully disagrees.

23. As noted in the rejection of claim 1 above, from the sequence of received packets, it can be determined if the original packets did not arrive because the redundant packets will contain the correct identifier of the packet (e.g., when node D saves both primary and redundant packets to verify integrity of the packets) [**page, 5, lines 26-29**] within the message sequence (but first to arrive) [**page 5, lines 24-25**]. The first timer value will be "0" (because it did not arrive) and the second timer value will be the actual time of arrival (i.e., timestamps not identical). Thus, the redundant packet's payload "overwrites" the missing packet's missing/empty payload.

24. Countless of these transmitted packets are written and overwritten continuously. If

Applicants are arguing that one address space must only contain either the first data telegram or the second data telegram (i.e., effectively disclaiming the situation where one of the first and second data telegrams never arrives), the examiner does not see such a limitation in the claims.

In response to applicant's argument that the references fail to show certain features of applicant's invention, it is noted that the features upon which applicant relies (i.e., the first and second packets' timer values are non-zero values) are not recited in the rejected claim. Although the claim is interpreted in light of the specification, limitations from the specification are not read into the claims. See *In re Van Geuns*, 988 F.2d 1181, 26 USPQ2d 1057 (Fed. Cir. 1993).

25. Applicants make the same statements/arguments with respect to claims 6-8 [**Applicants' Amendment dated October 26, 2007, page 11, paragraph 2**]. The examiner respectfully disagrees for the reasons outlined for claim 1 above.

Conclusion

26. Accordingly, **THIS ACTION IS MADE FINAL**. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

27. A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO MONTHS** of the mailing date of this final action and the advisory action is not mailed until after the end of the

THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

28. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure:

(a) Lutgen et al. (USP 7,301,897), Method and apparatus for managing congestion in a data communications network.

(b) Koch et al. (USP 6,672,264), Method for detecting invalid packets by assigning super-transaction identifiers.

(c) Kilkki et al. (USP 6,549,938), System and method for prioritizing multicast packets in a network service class utilizing a priority-based quality of service.

29. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Mark A. Mais whose telephone number is 572-272-3138. The examiner can normally be reached on M-Th 5am-4pm.

30. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wing F. Chan can be reached on 571-272-7493. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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31. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

MAM

December 11, 2007

 1/3/08

WING CHAN
SUPERVISORY PATENT EXAMINER